## IN THE CLAIMS:

Please amend the claims, without prejudice, without admission, without surrender of subject matter and without any intention of creating any estoppel as to equivalents as follows:

- 1-19 (Cancelled)
- (Currently Amended) An isolated equine GM-CSF polypeptide of equine or synthetic origin which has an adjuvant effect, immunity stimulant activity, and species-specificity as that of Isolated equine GM-CSF as set forth in SEQ ID NO:9.
- (Currently Amended) The isolated equine GM-CSF polypeptide of claim 20 having an amino acid sequence as set forth in SEQ ID NO:9.
- 22. (Currently Amended) An isolated equine GM-CSF polypeptide which has an adjuvant effect, immunity stimulant activity, and species-specificity as that of equine GM-CSF as set forth in SEQ ID NO:9 The isolated equine GM-CSF of claim 20 wherein the isolated equine GM-CSF polypeptide is obtained from expression by a vector that contains an isolated DNA molecule encoding the equine GM-CSF polypeptide having the adjuvant effect, immunity stimulant activity and species-specificity as that of equine GM-CSF as set forth in SEQ ID NO:9.
- (Currently Amended) The isolated equine GM-CSF polypeptide of claim 22 wherein the isolated DNA molecule has a nucleotide sequence as set forth in SEQ ID NO:8.
- 24. (Currently Amended) The isolated equine GM-CSF polypeptide of claim 22 wherein the isolated DNA molecule has a nucleotide sequence having 90% sequence identity to SEQ ID NO:8 and encodes the polypeptide having an adjuvant effect, immunity stimulant activity, and species-specificity as that of equine GM-CSF as set forth in SEO ID NO:9.
- 25. (Currently Amended) The isolated equine GM-CSF <u>polypeptide</u> of claim 22 wherein the isolated DNA molecule has a nucleotide sequence having 92% sequence identity to SEQ ID NO:8 and encodes the polypeptide having an adjuvant effect, immunity stimulant activity, and species-specificity as that of equine GM-CSF as set forth in SEQ ID NO:9.
- 26. (Currently Amended) The isolated equine GM-CSF polypeptide of claim 22 wherein the isolated DNA molecule has a nucleotide sequence having 95% sequence identity to SEQ ID NO:8 and encodes the polypeptide having an adjuvant effect, immunity stimulant activity, and species-specificity as that of equine GM-CSF as set forth in SEQ ID NO:9.

- (Currently Amended) A An equine immune stimulation composition comprising a
  veterinarily acceptable excipient or vehicle and the isolated equine GM-CSF polypeptide of any one
  of claims 20-26 or 44.
  - 28. (Cancelled)
- (Currently Amended) A method of immune stimulation of an equine comprising administering to a the equine subject the composition of claim 27.
- (Currently Amended) A method of immune stimulation of an equine comprising administering to a the equine subject the equine GM-GSF polypeptide of elaim any one of claims 20-26 or 44.
  - 31. (Cancelled)
  - 32. (Cancelled)
  - (Cancelled)
  - 33. (Cancelled)
  - (Cancelled)
  - 35. (Cancelled)
  - (Cancelled)
  - 37. (Cancelled)
  - 38. (Cancelled)
  - 39. (Cancelled)
  - (Cancelled)
  - 41. (Cancelled)
  - 42. (Cancelled)
  - 43. (Cancelled)
- 44. (New) An isolated equine GM-CSF polypeptide having an amino acid sequence as set forth in SEQ ID NO:9, wherein the isolated polypeptide is obtained from expression by a vector that contains and expresses an isolated DNA molecule encoding the isolated equine GM-CSF polypeptide.